

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3. (Canceled)

4. (Currently Amended) A system for generating application user interfaces enabling customization of the user interfaces for each of a plurality of users, the system comprising:

a personalization ~~server~~ system including a personalization engine and operable to deliver a user profile interface to a client device ~~of a user for each of~~ of ~~[[a]]~~ the plurality of users, the ~~personalization server~~ user profile interface being ~~further~~ operable to allow ~~each~~ the user to modify personalization data for that user ~~through the user profile interface~~, the personalization data characterizing at least one functional property of at least one user interface element of the application user interface presented on the client device of ~~each~~ that user;

an Internet application server operable to execute at least one selected Internet application of a plurality of Internet applications, the Internet application server including a user interface generator operable to generate at least one application user interface for the selected Internet application, customized for ~~each~~ the user using metadata for the at least one application user interface, and the personalization data for ~~each~~ the user requesting the at least one application user interface using the client device of ~~each~~ user;

a data repository including a data record for storing the personalization data for ~~each of the plurality of~~ the user users, the data record being accessible using the metadata; and

a web server operable to deliver the customized application user interface to the client device of ~~each of the plurality of users~~ the user.

5. (Currently Amended) The system of claim 4, wherein the ~~application-user interface customized for each of the plurality of users~~ at least one functional property includes ~~customization of an interaction model.~~

6. (Currently Amended) The system of claim 5, wherein the interaction model determines the timing of ~~communication between~~ delivery, from the client device and to the web server, of data input on the application user interface and is one of a deferred interaction model or an immediate interaction model, wherein the deferred interaction model is such that data input on the application user interface is deferred for delivery from the client device to the web server and the immediate interaction model is such that data input on the application user interface is immediately delivered from the client device to the web server.

7. (Currently Amended) A system for developing an Internet application including an application user interface with a customizable interaction model, the system comprising:

an application development system operable to allow a developer to specify at least one user interface element to be included in the application user interface, the at least one user interface element being associated with an interaction model, the interaction model being customizable by each a user of a plurality of users on a client device accessing the application user interface from a client device ~~to modify functionality of the at least one user interface element;~~

an application designer configured to produce metadata associated with the interaction model;

a personalization system including a personalization engine and operable to deliver a user profile interface to the client device of ~~each the user~~ of the plurality of users, the personalization system user profile interface being further operable to allow each the user to modify personalization data for that user ~~through the user profile interface~~, the personalization data characterizing the interaction model for ~~each the~~ the user for the at least one user interface element included in the application user interface presented on the client device of each the user;

a data repository including a data record configured to store the personalization data for each of the plurality of users, the data record being accessible using the metadata, wherein the application user interface contains different functionality of the at least one user interface element for different users depending upon the personalization data for those users.

8. (Previously Presented) The system of claim 7, wherein the application development server is further configured to specify display of an interaction model control command in the application user interface, the interaction model control command being configured for each user to customize the interaction model.

9. (Currently Amended) The system of claim 7, wherein the interaction model customizable by each user allows selection ~~from a keyboard and point-click based interaction model, and~~ from a deferred and immediate communication based interaction model between the client device and the Internet application for each user interface element, wherein the interaction model determines the timing of delivery, from the client device to the Internet application, of data input on the application user interface.

10. (Currently Amended) The system of claim 7, wherein the interaction model is configurable according to the identity of each the user or the identity of the client device of each the user.

11. (Previously Presented) The system of claim 7, wherein a state of the interaction model is further configurable to persist between uses of the application user interface.

12. (Previously Presented) The system of claim 7, wherein the data record is further modifiable using a configuration system.

Claims 13-14. (Canceled)

15. (Currently Amended) A system for generating a user interface, the system comprising:

an Internet application server operable to support an Internet application;
an application user interface generator operable to generate the user interface for the Internet application for display on a client device of each a user of a plurality of users, the user interface being generated using personalization data for each the user of the plurality of users, the personalization data being modifiable by each the user of the plurality of users and wherein the personalization data ~~characterizing~~ characterizes at least one functional property of the user interface element of the user interface, the at least one functional property including an interaction model between the client device and the Internet application server, wherein the interaction model is associated with the timing of delivery, from the client device to the Internet application server, of data input on the user interface;

metadata associated with the at least one functional property of the user interface element; and

a data repository including a data record for storing the personalization data for each of the plurality of users, ~~on the client device;~~

wherein each user of the plurality of users is able to modify the personalization data such that the application user interface functions differently for different users.

16. (Currently Amended) The system of claim 15, wherein the ~~application~~ user interface is configured for display on the client device using standard web browser protocols.

17. (Currently Amended) The system of claim 15, wherein the ~~application~~ user interface is further configured for display on the client device using features of a web browser, the features not requiring a browser add-on, plug-in, or extension.

18. (Canceled)

19. (Previously Presented) The system of claim 15, further including a configuration system configured to modify the data record.

20. (Previously Presented) The system of claim 19, wherein the configuration system is included in the Internet application.

21. (Currently Amended) An Internet application system having processor readable storage devices and processor readable code embedded therein for executing instructions on a computer system, comprising:

a user interface generator configured to generate an application user interface, the application user interface being compatible with a standard web browser and being generated in response to a request from a client device of each a user of a plurality of users, the user interface generator utilizing personalization data to generate the application user interface;

a web application server configured to deliver the application user interface to the client device of each user; and

an Internet application accessible to each the user through the generated application user interface,

wherein each the user is able to modify the personalization data, the personalization data characterizing at least one functional property of the user interface, the at least one functional property including an interaction model between the client device and the Internet application system, wherein the interaction model is associated with the timing of delivery, from the client device to the Internet application server, of data input on the application user interface, such that the application user interface functions differently for different users.

22. (Previously Presented) The Internet application system of claim 21, wherein the user interface generator is further configured to use metadata to generate the application user interface.

23. (Currently Amended) The Internet application system of claim 21, wherein the ~~interaction model~~ at least one functional property is specific to a user interface element included in the application user interface.

Claims 24-25. (Cancelled)

26. (Currently Amended) The Internet application system of claim 21, wherein the user interface generator is responsive to an identity of the client device or to an identity of each the user.

27. (Currently Amended) The Internet application system of claim 21, wherein the ~~interaction model customizable by each user~~ at least one functional property determining the interaction model between the client device and the Internet application system allows selection ~~from a keyboard-based interaction and a point-click-based interaction model, and from a deferred interaction and immediate communication-based interaction model, wherein the deferred interaction model is such that data input on the application user interface is deferred for delivery from the client device to the Internet application system and the immediate interaction model is such that data input on the application user interface is immediately delivered from the client device to the Internet application system.~~

28. (Previously Presented) The Internet application system of claim 21, wherein the client device is wireless system.

29. (Currently Amended) A computer program product embedded in a computer readable medium for generating a customizable application user interface, comprising:

program code for generating an application user interface including at least one user interface element customizable by each a user of a plurality of users, the application user interface configured for delivery to a client device of each the user and to operate as an interface between each the user and an Internet application including the application user interface;

program code for allowing each the user to modify personalization data for each the user, the personalization data characterizing at least one functional property of the at least one user interface element, for use with the application user interface and any other application interface using the at least one user interface element;

program code for storing in a data record the personalization data in a location physically remote from the client device of each the user; and

program code for storing metadata configurable for use by the user interface generator to access the data record,

wherein each user of the plurality of users is able to modify the personalization data such that the application user interface functions differently for different users.

30. (Currently Amended) The computer program product of claim 29, wherein the at least one functional property of the at least one user interface element is associated with an interaction model associated with the timing of delivery of information, from the client device to the Internet application, of data input on the application user interface, the interaction model including one of a deferred mode and or an immediate mode modes, wherein the deferred mode is such that data input on the application user interface is deferred for delivery from the client device to the Internet application and the immediate mode is such that data input on the application user interface is immediately delivered from the client device to the Internet application.

31. (Currently Amended) The computer program product of claim 29, wherein the user interface generator is responsive to an identity of each the user.

Claims 32-37. (Canceled)

38. (Currently Amended) A method of developing an application user interface associated with an Internet application, the method comprising the steps of:
selecting an interaction model characterized by a data record, the data record being stored in a data repository and being modifiable allowing each a user of a plurality of users to modify functionality at least one functional property of at least one user interface element in the application user interface, the data repository being physically remote from a client device of each the user used to display the application user interface;
generating the application user interface for each the user using the selected interaction model and the data record;

generating metadata associated with the interaction model, the metadata including a reference to the data record; and

storing the metadata in association with the Internet application, the Internet application being configured for access using the application user interface,

wherein each user of the plurality of users is able to modify the data record such that the application user interface functions differently for different users.

39. (Previously Presented) The method of claim 38, wherein the application user interface includes an interaction model control command.

40. (Currently Amended) The method of claim 38, ~~further including determining when communication occurs between the client device and the Internet application responsive to the interaction model~~ wherein the interaction model is associated with the timing of delivery, from the client device to the Internet application server, of data input on the application user interface and wherein the interaction model includes one of an immediate mode or deferred mode of communication between the client device and the Internet application server, wherein the immediate mode is such that data input by the user on the application user interface is immediately delivered from the client device to the Internet application server and the deferred mode is such that data input on the application user interface is deferred for delivery from the client device to the Internet application server.

41. (Currently Amended) A method of generating an application user interface, the method comprising the steps of:

accessing a page definition, the page definition including metadata associated with at least one customizable functional property of at least one user interface element of the application user interface;

accessing a data record using the metadata, the data record being stored in a data repository and characterizing the customizable functional property and being modifiable by each of a user of a plurality of users, the data repository being physically remote from a client device of each the user used to display the application user interface;

determining a value characterizing the at least one customizable functional property using the data record;

generating markup-language responsive to the determined value; and

including the generated markup-language in the application user interface, the application user interface being an interface to an Internet application,

wherein each user of the plurality of users is able to modify the data record characterizing the at least one customizable functional property such that the application user interface including the user interface elements functions differently for different users.

42. (Previously Presented) The method of claim 41, further including modifying the data record using a personalization system.

43. (Currently Amended) The method of claim 41, wherein the customizable functional property includes one of an immediate mode or a deferred mode of communication between the client device and the Internet application wherein the immediate mode is such that data input by the user on the application user interface is immediately delivered from the client device to the Internet application and the deferred mode is such that data input on the application user interface is deferred for delivery from the client device to the Internet application server.

44. (Currently Amended) The method of claim 41, wherein the customizable functional property is configured according to an identity of ~~each~~ the user or an identity of the client device of ~~each~~ the user.

45. (Currently Amended) A method of personalizing an interaction model to be used with multiple application user interfaces, the method comprising the steps of:

selecting the interaction model associated with a data record and specifying interaction functionality to be associated with each application user interface, the data record characterizing the interaction model and being customizable by ~~each~~ a user of a plurality of users on a client device, ~~the interaction model including a plurality of interaction modes wherein the~~

interaction model is associated with the timing of delivery, from the client device to an application server, of data input on the application user interface;

generating at least one application user interface using the interaction model and the data record;

generating metadata characterizing the interaction model, the metadata including a reference to the data record; and

storing the metadata in association with an application, the application being configured for access using the application user interface,

wherein each user of the plurality of users is able to modify the data record characterizing the interaction model such that the application user interface functions differently for different users.

46. (Previously Presented) The method of claim 45, wherein a mode of the interaction model is responsive to a command included in the application user interface.

47. (Currently Amended) The method of claim 45, wherein a customizable functional property of the interaction model includes one of an immediate mode or deferred mode of communication between the client device and the application server, wherein the immediate mode is such that data input by the user on the application user interface is immediately delivered from the client device to the application server and the deferred mode is such that data input on the application user interface is deferred for delivery from the client device to the application server.

48. (Previously Presented) The method of claim 45, wherein a customizable state of the interaction model is configurable to persist between uses of the HTML based application user interface.

Claims 49-59. (Canceled)

60. (Currently Amended) A computer implemented method of executing an Internet application, comprising the steps of:

receiving a request, from a client device of ~~each a user~~ of a plurality of users, for an application user interface, the application user interface including at least one user interface element;

accessing a page definition, the page definition including metadata associated with the application user interface;

retrieving, using the metadata, a value characterizing an interaction model associated with the user interface, the value being stored in a data repository physically remote from the client device of ~~each the~~ user, the value further being specified by ~~each the~~ user in order to modify interaction functionality of the application user interface, wherein the interaction model is associated with the timing of delivery, from the client device to the Internet application, of data input on the application user interface;

generating HTML responsive to the retrieved value;

including the generated HTML in the application user interface; and

delivering the application user interface to the client device of ~~each the~~ user, the application user interface being an interface between ~~each the~~ user and the Internet application,

wherein each user of the plurality of users is able to modify the value in the data repository characterizing the interaction model such that the application user interface functions differently for different users.

61. (Currently Amended) The method of claim 60, wherein the retrieved value characterizing the interaction model ~~is used to determine corresponding~~ or immediate mode of the interaction model for communication between the Internet application wherein the deferred mode is such that data input interface is deferred for delivery from the client device to the Internet a immediate mode is such that data input by the user on the application us immediately delivered from the client device to the Internet application.

62 } Changed to
63 } Previously
64 } Presented
instead of
Previously Amended

62. (Previously Presented) The method of claim 60, wherein the interaction model is specific to a user interface element.

63. (Previously Presented) The method of claim 60, further including displaying the application user interface at the client device using standard web browser protocols.

64. (Previously Presented) The method of claim 60, further including identifying a requestor of the application user interface, wherein the interaction model is responsive to the identity of the requester.

Claims 65-70. (Canceled)

71. (Currently Amended) A computer implemented method of generating an application user interface configured for delivery from a server to a client device, comprising the steps of:

receiving, at the server, a request for the application user interface from ~~each~~ a ~~user~~ of a plurality of users;

identifying ~~each~~ the user requesting the application user interface, the application user interface being associated with an interaction model, wherein the interaction model is associated with the timing of delivery, from the client device to the server, of data input on the application user interface;

accessing a page definition, the page definition including metadata associated with the application user interface;

retrieving, using the metadata and the identity of ~~each~~ the user, a value for characterizing the interaction model, the value being selected by ~~each~~ the user in order to modify interaction functionality of the application user interface, the value being stored in a data repository;

generating HTML incorporating the interaction model using the value;

including the generated HTML in the application user interface; and

delivering the application user interface from the server to the client device of ~~each~~ the user,

wherein each user of the plurality of users is able to modify the value in the data repository characterizing the interaction model such that the application user interface functions differently for different users.

72. (Previously Presented) The method of claim 71, further including communicating from the client device to the server responsive to the interaction model.

73. (Currently Amended) The method of claim 72, wherein the communication occurs in one of an immediate mode or a deferred mode, wherein the immediate mode is such that data input by the user on the application user interface is immediately delivered from the client device to the server and the deferred mode is such that data input on the application user interface is deferred for delivery from the client device to the server.

74. (Previously Presented) The method of claim 71, further including displaying an interaction model control command in the user interface.

Claims 75-77. (Canceled)

78. (Currently Amended) The system of claim 4, wherein ~~the at least one~~ property of the at least one user interface element is one of text, graphics, images, fields or buttons, associated with at least one of mode of data input and output, presentation of requested information, and mode of communication between the client device and the Internet application server.

79. (Currently Amended) The system of claim 4, wherein the at least one ~~functional~~ property of the at least one user interface element includes one of keystroke functionality or functionality of the display buttons, a tab order property, a find command, a view all command, and or an immediate access keystroke sequence.

80. (Currently Amended) The method of claim 41 wherein the customizable ~~functional~~ property includes one of keystroke functionality or functionality of the display

~~buttons, a tab order property, a find command, a view all command, and or an immediate access keystroke sequence.~~

81. (New) The system of claim 4, wherein the application user interface is presented to the user on the client device in a first presentation step and in a second presentation step, wherein the application user interface presented in the second presentation step is modified based on the personalization data.

82. (New) The system of claim 15, wherein a user profile interface delivered to the user on the client device enables the user to modify the personalization data.

83. (New) The system of claim 15, wherein the interaction model is one of a deferred mode or immediate mode of communication between the client device and the Internet application server wherein, the deferred mode is such that data input on the user interface is deferred for delivery from the client device to the Internet application server and the immediate mode is such that data input on the user interface is immediately delivered from the client device to the Internet application server.

84. (New) The computer program product of claim 29, wherein a user profile interface delivered to the user on the client device enables the user to modify the personalization data.

85. (New) The method of claim 38, wherein a user profile interface delivered to the user on the client device enables the user to modify the data record.

86. (New) The method of claim 60, wherein a user profile interface delivered to the user on the client device enables the user to modify the value in the data repository characterizing the interaction model.